

AEROSHELL FLUID 31

Super-clean, synthetic hydraulic fluid with improved fire resistance

Shell Aviation

ARE YOU LOOKING TO ENHANCE SAFETY AND PERFORMANCE? **AEROSHELL FLUID 31** HAS **IMPROVED FIRE RESISTANCE** AND IS **SUPER CLEAN**.

ABOUT AEROSHELL FLUID 31

To improve aircraft safety, manufacturers are increasingly recommending the use of super-clean, synthetic hydraulic fluids with improved fire resistance such as **AeroShell Fluid 31**. Compared with MIL-PRF-5606 mineral hydraulic fluids, **AeroShell Fluid 31** has a higher flashpoint for **greatly improved fire resistance**. It also helps to prevent hydraulic system failure by being manufactured using **super-clean procedures**.

AeroShell Fluid 31 is specially designed to **protect hydraulic systems** and keep them **running efficiently** through its base oil and advanced additives. These components combine to give the fluid good low-temperature performance, thermal stability, oxidation and corrosion resistance, wear protection and anti-foaming properties.

APPLICATIONS

AeroShell Fluid 31 is recommended for use in autopilots, shock absorbers, brakes, flight control systems, hydraulic servo-controlled systems and other systems using synthetic elastomer seals in aircraft operating at -40 to 205°C.

AeroShell Fluid 31 is compatible with AeroShell Fluid 41 and can be used in systems designed to operate with MIL-PRF-5606, MIL-PRF-6083, MIL-PRF-87257 and MIL-PRF-46170 fluids. It should not be used in contact with incompatible seal materials. In addition, chlorinated solvents should not be used for cleaning hydraulic components that use AeroShell Fluid 31, as the residual solvent contaminates the hydraulic fluid and may lead to corrosion.

CONTACT US

For a full listing of equipment approvals and recommendations, please contact your Shell Aviation representative or visit

www.aeroshell.com

BENEFITS AT A GLANCE

- **Improved fire resistance** and a high flashpoint compared with a mineral oil
- **Enhanced system reliability** by protecting against system failure through super cleanliness
- **Long component life** through its wear protection, oxidation and corrosion resistance, shear-stability performance and anti-foaming properties
- **System efficiency** through its low-temperature performance and high viscosity index

SUPER-CLEAN RELIABILITY

Particulates in hydraulic fluids can cause system failures through valve sticking, wear and blockages in nozzles and tubes. Particulates are especially challenging for modern hydraulic systems that operate at high pressures and have components with tight tolerances. **AeroShell Fluid 31** is formulated to protect hydraulic systems against failure by meeting **super-clean standards**. Its particulate content is tightly controlled through special manufacturing processes, including multistage filtration, container cleaning just before filling and clean-room packaging conditions.

SPECIFICATIONS

- Approved MIL-PRF-83282 (US and British)
- Approved DCSEA 437/B (French)
- NATO code H-537
- Joint Service Designation OX-19

AeroShell Fluid 31 is also **approved for use** in the Honeywell (formerly Garrett) cooling turbine (cabin air compressor).

